

(12) United States Patent

Hendricks et al.

(54) ELECTRONIC BOOK ALTERNATIVE **DELIVERY SYSTEMS**

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Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35

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This patent is subject to a terminal dis-

claimer.

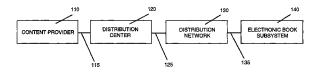
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- **U.S. Cl.** 705/50; 705/1; 455/4.2; 364/419.1
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See application file for complete search history.



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(56)References Cited

U.S. PATENT DOCUMENTS

3,860,873 A 1/1975 Ringstad

(Continued)

FOREIGN PATENT DOCUMENTS

CA 2044574 12/1992

(Continued)

OTHER PUBLICATIONS

Dinaro, et al.; Markets and Products Overview; 1991; pp. 135-148.

(Continued)

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ABSTRACT (57)

The invention, an electronic book selection and delivery system, distributes electronic text and graphics to subscribers. The system contains an operations center, a video distribution system or a variety of alternative distribution systems, a home subsystem, and a billing and collection system. The operations center and/or distribution points perform the functions of manipulation of text data, security and coding of text, cataloging of books, message center, and uplink functions. The home subsystem connects to a video distribution system or variety of alternative distribution systems, generates menus and stores text, and transacts through communicating mechanisms. A portable book-shaped viewer is used for viewing the text. The billing system performs the transaction, management, authorization, collection and payments utilizing the telephone system or a variety of alternative communication systems.

57 Claims, 53 Drawing Sheets

